

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P292810

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

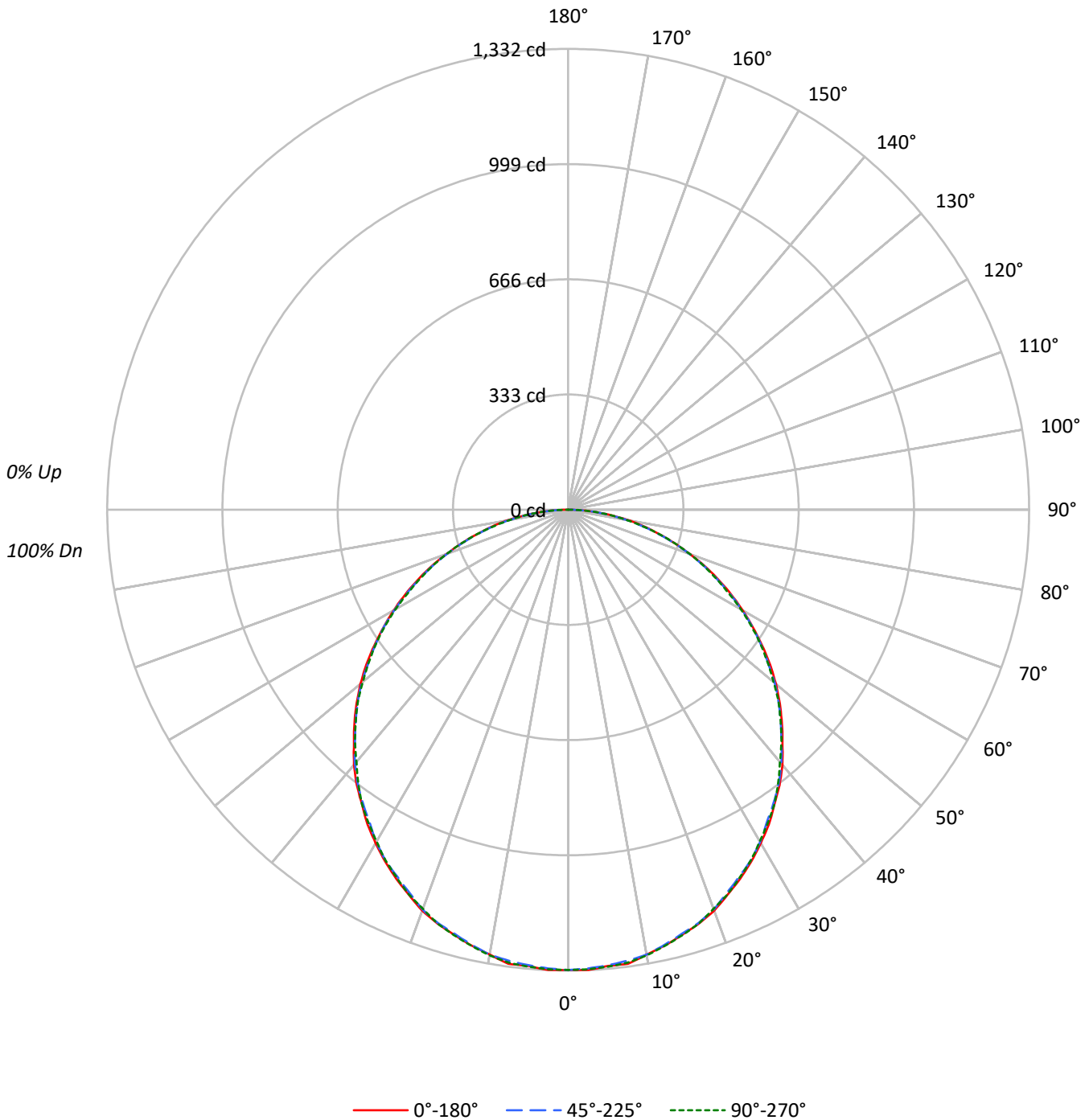
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3580	3580	3580
5°	3576	3570	3582
10°	3568	3568	3574
15°	3545	3535	3548
20°	3532	3522	3516
25°	3493	3473	3483
30°	3457	3447	3440
35°	3414	3399	3414
40°	3384	3368	3344
45°	3326	3304	3304
50°	3280	3261	3243
55°	3210	3189	3184
60°	3136	3118	3105
65°	3056	3020	3006
70°	2933	2924	2933
75°	2831	2797	2820
80°	2802	2664	2647
85°	2482	2411	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.3
10°-20°	359.1	9.4
20°-30°	540.7	14.2
30°-40°	648.9	17.1
40°-50°	671.4	17.7
50°-60°	608.4	16.0
60°-70°	471.6	12.4
70°-80°	286.3	7.5
80°-90°	88.6	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1025.7	27.0
0°-40°	1674.6	44.1
0°-60°	2954.4	77.7
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1324	1324	1322	1325	1326	126
15°	1272	1272	1269	1275	1274	359
25°	1176	1174	1170	1174	1173	542
35°	1039	1039	1035	1036	1039	651
45°	874	873	868	868	868	674
55°	684	683	680	679	679	612
65°	480	480	474	477	472	475
75°	272	271	269	269	271	290
85°	80	79	78	78	79	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.4	1330.4	1330.4	1330.4	1330.4
2.5°	1331.5	1325.9	1327.0	1329.3	1329.3
5°	1323.7	1323.7	1321.5	1324.8	1325.9
7.5°	1323.7	1318.1	1314.8	1318.1	1320.3
10°	1305.8	1303.6	1305.8	1304.7	1308.1
12.5°	1290.2	1288.0	1288.0	1291.3	1291.3
15°	1272.3	1272.3	1269.0	1274.6	1273.5
17.5°	1254.5	1254.5	1252.3	1252.3	1254.5
20°	1233.3	1227.7	1229.9	1228.8	1227.7
22.5°	1204.3	1200.9	1198.7	1202.0	1203.2
25°	1176.4	1174.1	1169.7	1174.1	1173.0
27.5°	1146.2	1144.0	1142.9	1140.6	1142.9
30°	1112.7	1110.5	1109.4	1107.2	1107.2
32.5°	1079.3	1074.8	1069.2	1074.8	1073.7
35°	1039.1	1039.1	1034.6	1035.7	1039.1
37.5°	1003.4	1001.1	998.9	995.6	996.7
40°	963.2	959.8	958.7	956.5	952.0
42.5°	916.3	916.3	911.8	913.0	911.8
45°	873.9	872.8	868.3	868.3	868.3
47.5°	829.3	828.1	824.8	822.6	824.8
50°	783.5	779.0	779.0	775.7	774.6
52.5°	735.5	732.2	727.7	728.8	726.6
55°	684.2	683.1	679.7	678.6	678.6
57.5°	632.8	633.9	631.7	627.2	628.4
60°	582.6	581.5	579.3	577.0	577.0
62.5°	531.3	531.3	526.8	526.8	522.3
65°	479.9	479.9	474.3	476.6	472.1
67.5°	428.6	427.5	424.1	423.0	424.1
70°	372.8	373.9	371.7	371.7	372.8
72.5°	322.6	321.4	320.3	320.3	322.6
75°	272.3	271.2	269.0	269.0	271.2
77.5°	226.6	221.0	219.9	222.1	218.8
80°	180.8	173.0	171.9	170.8	170.8
82.5°	127.2	123.9	125.0	123.9	126.1
85°	80.4	79.2	78.1	78.1	79.2
87.5°	37.9	35.7	35.7	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)